


DETECTION OF MUTAGENIC SUBSTANCE WITH TRANSGENIC FISHES

DETECTION OF MUTAGENIC SUBSTANCE WITH TRANSGENIC FISHES

Patent Number: JP8205708
Publication date: 1996-08-13
Inventor(s): AMANUMA HIROSHI; TAKEDA HIROYUKI; AMANUMA KIMIKO
Applicant(s): RIKAGAKU KENKYUSHO
Requested Patent:  JP8205708
Application Number: JP19950013829 19950131
Priority Number(s):
IPC Classification: A01K67/027; C12N5/10; C12N15/09
EC Classification:
EC Classification:
Equivalents:

Abstract

PURPOSE: To obtain a transgenic fish having a monitor gene for detecting a mutagenic substance and capable of highly accurately detecting carcinogenic substances by a simple method.

CONSTITUTION: Shuttle vectors each containing a monitor gene for detecting a mutagenic substance are introduced into fertilized roe of a fish to produce chimera fishes, from which a chimera fish into whose germ cells the monitor genes for detecting the mutagenic substance are introduced is screened. The screened chimera fish is mated with a wild type fish, and a fish containing the monitor gene for detecting the mutagenic substance is screened from the obtained fishes to produce the transgenic fish.